

Appl. No. 099/998,093  
Response C dated May 6, 2004  
Reply to Office Action of February 20, 2004

**Amendment to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Previously Amended) A structural reinforcement part for use in automobile applications, comprising:

- 1) a molded shell, having a set shape and size, comprising a polymer wall having an interior and an exterior face, wherein said interior face defines a space within the molded shell;
- 2) a structural filler material disposed in and substantially filling said space within the molded shell, and
- 3) a heat-activated expandable adhesive in contact with the exterior face of the polymer wall;

wherein the structural filler material does not undergo or require any chemical reaction or expansion, after part installation or during automotive assembly.

2. (Previously Amended) The structural reinforcement part of Claim 1, wherein the molded shell is produced from a polymer selected from polyamides, polyolefins, syndiotactic vinyl aromatic polymers, and blends thereof.

3. (Original) The structural reinforcement part of Claim 2, wherein the molded shell is produced from a polyamide.

4. (Previously Amended) The structural reinforcement part of Claim 1, wherein the structural filler material is selected from polyurethane and aluminum foams.

5. (Original) The structural reinforcement part of Claim 4, wherein the structural filler material is polyurethane foam.

6. (Previously Amended) The structural reinforcement part of Claim 1, wherein the expandable adhesive is selected from expandable epoxies, polyolefins and thermoplastic polyurethanes.

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7. (Original) A method for producing the structural reinforcement part for automotive assembly of Claim 1 comprising:

- 1) forming a molded shell, having a set shape and size, comprising a polymer wall having an interior and an exterior face, wherein said interior face defines a cavity within the molded shell;
- 2) injecting into said cavity a structural filler material or components thereof such that the cavity is substantially filled, and
- 3) contacting an expandable adhesive with the exterior face of the polymeric wall;

wherein the structural filler material does not undergo or require any chemical reaction or expansion, after part installation or during automotive assembly.

8. (Original) The method of Claim 7 wherein the molded shell is blow molded, rotational molded or injection molded.

9. (Original) The method of Claim 7 wherein the expandable adhesive is coated onto the exterior face of the polymer wall.

10. (Original) The method of Claim 7 wherein the expandable adhesive is preformed or cut and adhered to the exterior face of the polymer wall.

11. (New) A part according to Claim 6 wherein the structural filler material has a density of about 5 to about 25 pounds per cubic foot.

12. (New) A process according to Claim 7 wherein the structural filler material cures to a density of about 5 to 25 pounds per cubic foot.